

THE U.S. DEPARTMENT OF ENERGY

**OFFICE OF TRANSPORTATION
TECHNOLOGIES**

**NATIONAL ALTERNATIVE
FUELS HOTLINE**

NATURAL GAS RESOURCE GUIDE

**FOR ADDITIONAL INFORMATION CONTACT THE
NATIONAL ALTERNATIVE FUELS HOTLINE**

UPDATED: JUNE 29, 1998

**PHONE: 800-423-1DOE
LOCAL/INTERNATIONAL: 703-934-3069
FAX: 703-934-3183
EMAIL: hotline@afdc.nrel.gov**

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I. ADSORBED NATURAL GAS

Brookhaven National Laboratory

Department of Applied Science
Building 815 M, Upton, NY 11973

Contact: James Wegerzin

Phone: 516-344-7917

Fax: 516-344-5526

Atlanta Gas Light Adsorbent Research Group

235 Peach Tree Street, N.E.
P.O. Box 4569, Atlanta, GA 30302

Contact: Doug Horne, Director for Research & Development

Phone: 404-584-4802

Fax: 404-584-4807

Contact: Terry Cook, Program Manager

Phone: 404-584-4806

Fax: 404-584-4807

U.S. Department of Energy

1000 Independence Ave, S.W.
Washington, DC 20585

Contact: Michael Gurevich, Program Manager

Phone: 202-586-6104

Fax: 202-586-9815

II. ASSOCIATIONS

Canadian Gas Association

243 Consumers Rd, Suite 1200

North York, ON CANADA M2J 5E3

Contact: Ed Cartright,
Community Relations
Barbara Cayley, Librarian

Phone: 416-498-1994

Fax: 416-498-7465

The CGA focus is to develop the Canadian market for NGVs. The association provides a forum for discussion with government agencies with an interest in the NGV market.

Canadian Gas Research Institute

55 Scarsdale Road
Don Mills ON, CANADA M3B2R3

Contact: Drive Shahrazed Rahbar,
Engineer

Phone: 416-447-6661

Fax: 416-447-6757

Compressed Gas Association

Crystal Square 2
1725 Jefferson Davis Highway
Suite 1004
Arlington, VA 22202-4102

Contact: Carl T. Johnson, President

Phone: 703-412-0900 ext. 712

Toll Free: 800-U-ASK-CGA

Fax: 703-412-0128

Provides technical information and safety standards for storage, transportation and distribution of natural gas.

Gas Research Institute

8600 Bryn Mawr Avenue
Chicago, IL 60631

Contact: Rajeeana Gable
Group Manager

Phone: 773-399-8321

Fax: 773-399-8170

Research and development management organization for the natural gas industry. GRI's work includes developing advanced, cost-effective natural gas engines and vehicles, as well as enabling technology such as on-board storage and refueling equipment. GRI's objective is to increase the value of gas energy service to the industry and its customers.

Institute of Gas Technology

4201 West 36th Street
Chicago, IL 60632

Contact: Christopher Blazek
President

Phone: 773-890-6400

Fax: 773-890-6460

Provides research, development, demonstration projects and consulting to the NGV industry and government. This includes CNG and LNG vehicle systems, refueling stations, storage, economics, data collection, and marketing research.

Natural Gas Vehicle Coalition

1515 Wilson Boulevard, Suite 1030
Arlington, VA 22209

Contact: Rich Kolodziej
President

Phone: 703-527-3022

Fax: 703-527-3025

The Natural Gas Vehicle Coalition is a national trade association committed to developing profitable, long-term markets for natural gas vehicles. Member organizations include natural gas distribution companies, pipelines, producers, NGV equipment suppliers, non-profit organizations and governmental agencies.

Natural Gas Vehicle Producers Association

113 South West Street, 4th Floor
Alexandria, VA 22314

Contact: Wayne Smith, Managing Director

Phone: 703-838-2941

Fax: 703-838-2950

Society of Automotive Engineers (SAE)

258 Sun Ridge Drive
Freedom PA 15042

Contact: David DuBois, Staff Engineer

Phone: 724-772-7159

Fax: 724-776-0243

Organization of professional engineers who establish standards for the automotive industry. Publishes technical studies and is a clearinghouse for technical resources.

III. DATABASES

Alternative Fuels Data Center

9300 Lee Highway
Fairfax VA 22031-1207

Contact: National Alternative Fuels Hotline

Phone: 800-423-1363

Local: 703-934-3069

Fax: 703-934-3183

Email: hotline@afdc.nrel.gov

Website: www.afdc.doe.gov

Accessible via the World Wide Web, the AFDC

provides information about each of the alternative fuels. Including a searchable data base for documents, refueling sites, vehicle emission data and incentives for purchasing Alternative Fuel Vehicles.

Natural Gas Vehicle Safety Data Base

Science Applications International Corp.
1710 Goodridge Drive, T-2-7-2
McLean, VA 22102

Contact: David M. Friedman

Phone: 703-821-4559

Fax: 703-893-2187

Motor Fuels Information Center

Information Resources, Inc.
1925 North Lynn Street, Suite 1000
Arlington, VA 22209

Contact: David Holt
Director, Legislative &
Regulatory Affairs
Phone: 703-528-2500
Fax: 703-528-1603
Email: david.holt@motorfuels.com
Website: www.motorfuels.com

Accessible via the World Wide Web, MFIC is a comprehensive database on motor fuels. MFIC contains complete listings of state and federal legislation as well as up-to-date information on alternate fuels. This is a paid subscription service.

IV. DIRECTORIES

NGV Resource Guide

RP Publishing, Inc.
1410 Grant Street, Suite B203
Denver, CO 80203-9784

Contact: Ellen Pollock
Editor

Phone: 303-863-0521

Fax: 303-863-1722

The NGV Resource Guide is an annual directory containing lists of suppliers, manufacturers and service providers to the natural gas vehicle industry. This publication also includes maps and an overview of current alternative fuel legislation, as well as market forecasts and economic trends.

V. FUNDING/INCENTIVES

FEDERAL TAX CREDITS/DEDUCTIONS

Title 19 of The Energy Policy Act of 1992 (EPACT) outlines tax deductions for qualified alternative fuel vehicles. Deductions are broken down by weight and types of vehicles, and are as follows:

Truck or van (GVW 10,000 - 26,000 lb.):	\$5,000
Truck or van (GVW more than 26,000 lb.):	50,000
Buses (seating capacity of 20+):	\$50,000

All other vehicles: \$2,000*
*(Off-road vehicles, e.g. forklifts, not included)

The tax credit for qualified electric vehicles is 10% of the cost of the vehicles or \$4,000, whichever is lower. These amounts shall be reduced according to the following schedule: 2002: 25% reduction; 2003: 50% reduction; and 2004: 75% reduction. These deductions and credits are available after 12/20/93 through 12/31/04 (2004).

Tax deductions for qualified clean-fuel vehicle refueling properties shall not exceed \$100,000 for property placed in service by the taxpayer in the taxable year or preceding taxable years. Deductions are available from 6/30/93 through 12/31/04.

Internal Revenue Service

1111 Constitution Ave, NW
Washington, DC 20224

Contact: Winston Douglas,
Alternative Fuels Tax Provisions

Phone: 202-622-3110

Order Desk: 800-829-3676

(ask for Pub #535, *Alternative Fuel Vehicle Tax Deduction Booklet*)

STATE AND FEDERAL PROGRAMS

For information on state programs, contact your State Energy Office. Phone numbers and contacts for these offices are provided in *The Guide to Alternative Fuel Vehicle Incentives and Laws*, available through the National Alternative Fuels Hotline (See page 2). This guide summarizes federal and state laws, regulations and incentives.

VEHICLE CREDITS AND CREDIT TRADING

Section 508, Title V of EPACT provides credits for fleet owners who purchase AFVs earlier or in greater quantities than required in the act. One credit is obtained for each AFV that a fleet owner purchases beyond the requirements. The credits are transferable and there are no restrictions on where the credits can be traded. DOE is working to develop a credit trading

database. For further information, contact the National Alternative Fuels Hotline.

VI. GOVERNMENT CONTACTS

Energy Information Administration (EIA)

National Energy Information Center
Washington, DC 20585

Phone: 202-586-8800

Fax: 202-586-1076

Email: infoctr@eia.doe.gov

Offers a listing of documents published by EIA and its various offices such as the National Technical Information Service (NTIS) and the National Energy Information Center (NEIC). This is a valuable source for energy statistics.

National Renewable Energy Laboratory

1617 Cole Boulevard

Mail Stop 16/3

Golden, CO 80401-3393

Contact: Paul Norton
Project Engineer

Phone: 303-275-4424

Fax: 303-275-4415

Email: nortonp@tcplink.nrel.gov

Website: www.afdc.doe.gov

U.S. Department of Energy

Office of Heavy Vehicle Technologies

1000 Independence Ave, SW

Washington, DC 20585-0121

Contact: Richard Wares,
Transit Bus Program Manager

Phone: 202-586-8031

Fax: 202-586-9815

U.S. Environmental Protection Agency

National Vehicle & Fuel Emissions

Laboratory

2000 Traverwood, Ann Arbor, MI 48105

Contact: Debbie Addler
Environmental Scientist

Phone: 734-214-4223

Fax: 734-214-4051

VII. PERIODICALS

Clean Fuel Vehicle Week

Energy West Publishers

1709 Salvador Ave

San Clemente, CA 92672

Subscription Rate: \$445/year, \$625/year

Phone: 714-492-1340

Fax: 714-492-6556

Frequency: Weekly

Email: energywe@deltanet.com

Website: www.energywest.com

Available by mail or fax, Clean Fuel Vehicle Week provides information on vehicles fueled by natural gas and other alternative and new fuels.

LNG Express

Zeus Development Corporation

2424 Wilcrest Drive, Suite 240, P.O. Box

272505 Houston, TX 77277-2500

Subscription: \$225/year

Contact: Dan McKay, Editor

Phone: 713-952-9500

Fax: 713-952-9526

Frequency: Bi-monthly

Reports on current activities relating to liquefied natural gas (LNG).

Natural Gas Fuels

RP Publishing, Inc. 1410 Grant Street, Suite

B203 Denver, CO 80203-9784

Subscription: Free

Contact: Ellen Pollock, Editor

Phone: 303-863-0521

Fax: 303-863-1772

Frequency: Monthly

A magazine dedicated to the use of natural gas as a vehicle fuel, *Natural Gas Fuels* is written especially for fleet owners, local distribution companies, manufacturers and suppliers of NGV equipment and services.

Natural Gas Vehicle

American Gas Association

1515 Wilson Boulevard, Arlington, VA 22209

Subscription Rate: \$192/year for

non-members

Phone: 703-841-8400

Fax: 703-841-8689

Frequency: Bi-monthly

NGV News

Pasha Publications

1616 North Fort Myer Drive, Suite 1000

Arlington, VA 22209

Subscription Rate: \$247/year

Phone: 800-424-2908

Frequency: Monthly

New Fuels Report

Inside Washington Publishers

Ben Franklin Station, P.O. Box 7167

Washington, DC 20044

Phone: 800-424-9068

Local: 703-416-8500

Fax: 703-416-8543

Frequency: Weekly

Reports worldwide on oxygenates, alcohols and other alternative fuels.

VIII. SAFETY STANDARDS

National Fire Protection Association

Contact: Ted LeMoff,
Senior Gases Engineer

Phone: 617-770-3000 x3434

Order Desk: 800-344-3555

The NFPA provides safety standards for natural gas storage, handling, and transportation. The following standards apply to natural gas:

NFPA 52: *Compressed Natural Gas Vehicular Fueling Systems: A Guide to the Design and Installation of CNG Fuel Systems*

NFPA 57: *Liquefied Natural Gas Vehicular Fuel Systems*

NFPA 170: *Fire Safety Symbols*

Compressed Gas Association

Crystal Square 2, 1725 Jefferson Davis Highway Suite 1004, Arlington, VA 22202-4102

Contact: Carl T. Johnson, President

Phone: 703-412-0900 ext. 712

Toll Free: 800-U-ASK-CGA

Fax: 703-412-0128

Provides technical information and safety standards for storage, transportation and distribution of natural gas.

IX. TANK MANUFACTURING & TESTING STANDARDS

Compressed natural gas fuel tanks must be manufactured under the following three types of standards:

U.S. Department of Transportation:

Standard #304: Federal standards for CNG storage tanks are contained in the final rule for CNG Fuel Container Integrity—Federal Register 49 CFR Part 571.

American National Standards

Institute/American Gas Association NGV2:

NGV2 standards are available through the Natural Gas Vehicle Coalition. Tanks manufactured under NGV2 standards surpass NHTSA certification standards.

American Society of Mechanical Engineers:

Tanks that are built under ASME Code have a very high safety record. ASME Code requirements result in a much heavier tank, and are used primarily in heavy vehicles.

Testing Standards

The following are the current guidelines for testing natural gas fuel containers:

ANSI/AGA/NGV-2: Visual Inspection Standards for NGV Fuel Containers:

Sets visual inspection procedures and standards for fuel containers.

Contact: Bob DeReamer, Project Engineer

Phone: 216-524-4990

CGA C-6.4 Visual Inspection Guide

Describes visual inspection of NGV cylinders.

Contact: Compressed Gas Association
Phone: 703-412-0900 ext. 712

ASTM E0704/95-1

Acoustic method for on-board testing of NGV cylinders.

Contact: Jim Mitchell,
Director of Market Development
Phone: 860-536-3380
Fax: 860-536-3380

National Highway Traffic Safety Administration

U.S. Department of Transportation
400 7th St. SW, Room 5307
Washington DC 20590

Contact: Charlie Holt
Phone: 202-366-0247
Fax: 202-366-2739

Gas Research Institute

8600 West Bryr Mawr Avenue
Chicago, IL 60631

Contact: Steve Takagishi
Program Manager
Phone: 312-399-8215
Fax: 312-399-8369

Modern Engineering

15201 Commerce Drive, North,
Dearborn, MI 48121

Contact: Robert Childs
Program Manager
Phone: 313-317-9675
Fax: 313-336-7104

Composite Tanks

Composite tanks are molded fiberglass lined with carbon. These tanks are extremely lightweight (one quarter the weight of an aluminum tank), and can be molded into any shape to take up excess space. These tanks are currently available for purchase. For more information, please contact the Natural Gas Vehicle Coalition (See page 2).

X. VEHICLE MANUFACTURER

CONTACTS

American Honda

1919 Torrance Boulevard,
Torrance, CA 90501

Contact: Steve Ellis, Manager
Alternative Fuels Task Force
Phone: 310-783-3987
Fax: 310-781-4585
Email: sellis@amerhonda.com

Chrysler Corporation

27777 Franklin Road,
Southfield, MI 48034

Contact: Michael Clement, Manager
Alternative Fuel Vehicle Sales
Phone: 810-576-5472
Toll Free: 800-255-2616

Ford Motor Company

World Headquarters
The American Road, Room 255
Dearborn, MI 48121-1899

Contact: Tom Artushin, Manager
Ford Alternative Fuel Division
Phone: 313-446-9461
Toll Free: 800-ALT-FUEL

General Motors Corporation

3044 West Grand Boulevard,
Detroit, MI 48202

Contact: Gerald Barnes, Manager
Alternative Fuels Division
Phone: 313-556-7723